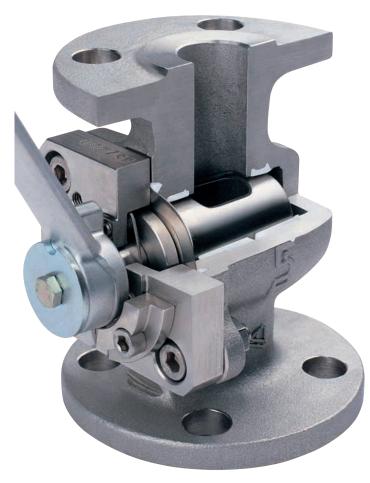


brands you trust.



XOMOX Plug Valves



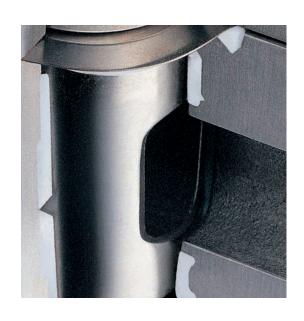


TUFLIN® Plug Valve

- · No Lubrication, no maintenance cost
- Excellent shut-off and control properties
- No cavities also at media containing solid particles and crystallizing fluids
- No residuals, no contamination of the process media
- Tight shut-off of liquids and gases (Leakrate < 10⁻⁶ mbar l/sec)
- · Long service-life at highest reliability
- Economical life-cycle-cost at different applications
- For more than 40 years TUFLIN® sleeved plug have proven to be reliable shutoff and throttling service devices. They are used in a wide range of severe and highly demanding services - ideal for corrosive, scaling, adhering, inflammable, or erosive flow media. These valves show excellent performance in traditional ball and gate valve applications, and they offer a cost-efficient solution for tight shutoff and throttling of gases, vapors, slurries, etc.

Technical Features

- PTFE-sleeve entirely retained by 360° lips around the ports.
- PTFE-sleeve acts as primary seal in the waterway and to atmosphere.
- Due to the PTFE-sleeve no lubrication necessary.
 Therefore, no contamination of the process fluid by lubricants.
- Secondary seal at the cover also in FIRESAFE-design available (optional).
- Conical plug shape grants low operation torques and vertical adjustment possibility.
- Compact and robust body design (one-piece cast body).
- · Low weight
- Easy operation 0° 90°







Technical Data

Size Range: DN 15 – DN 400 / NPS ½ - 16"

Pressure Range: PN 10 – PN 100 / ANSI Class 150 – 600

(also according to JIS and BS)

Vacuum

(Vacuum range: up to 1.33 x 10⁻² mbar)

Temperature Range: 173 K up to 553 K (-100°C up to +280°C)

Materials

Body and Plug

Ductile Iron EN-JS1049 as per EN 1563, 0.7659

(Ni Resist) as per DIN 1694

Carbon Steel e.g. EN10213-2 (1.0619), A216-WCB,

A352-LCB

Stainless Steel e.g. 1.4408, 1.4309 as per EN 10213-4,

CF8M, CF8C, CF8, CF3M, CF3,

special Alloys: 1.4539, CN7M, A494-M-35-1 (Monel), A494-CZ100 (Nickel), A494-N7M (Alloy B2), A494-CW2M (Alloy C4), B367-C2 (Titan), A494-CY-40 (Alloy 600) Other material acc. to DIN/EN and ASTM

on request.

Sleeves PTFE, glasfibre-reinforced PTFE, PE,

PTFE-X and PTFE-XC for special applications (virgin plastic material)

Options

• FIRESAFE

• Oil- and Grease-free, i.e. for oxygen

• Relief hole or slot for polymerizing media and chlorine

• Fullbore

· Control plug valve

• Special design for HF-service

Nucelar designs

• Special designs for specific applications

Approvals/Certificates

CE-Marking
EU Type Test Approval
FIRESAFE certificate according to API607 4th ed.
Several approvals from clients
GOST R

Other





TUFLIN®-Two-way Plug Valves

- Two-way design (straight water way)
- Flange-, Weld (SW/BW)- resp. Threaded Ends
- ISO-Cover for standardised actuator mounting acc. to DIN/ISO 5211

Technical Data

Size Range: DN 15 – 400 / NPS $\frac{1}{2}$ - 16 **Pressure Range:** PN 10-100 (EN 1092-1)

ANSI Class 150-600 (also according to JIS & BS)

Vacuum

(Vacuum range: up to 1.33 x 10⁻² mbar) **Temperature Range:** 173 K up to 553 K (-100° C up to +280° C)

Materials

Ductile Iron EN-JS1049 as per EN 1563, Carbon Steel e.g. EN10213-2 (1.0619), A216-WCB, A352-LCB Stainless Steel e.g. 1.4408, 1.4539, 1.4309, CF8M, CF8, CF3M, CN7M, A494-M-35-1 (Monel), A494-CZ100, A494-N7M (Alloy B2), A494-CW2M (Alloy C4), B367-C2 (Titanium) Other materials on request.

Sleeves and sealings made from virgin PTFE.

Further materials for sleeves available depending on pressure and temperature.

Options

- FIRESAFE
- Oil- and Grease-free, i.e. for oxygen
- Relief hole or slot for polymerizing media and chlorine
- Nucelar designs
- Special designs for specific applications

Approvals/Certificates

CE-Marking; EU Type Test Approval; FIRESAFE certificate according to API607 4th ed.; Several approvals from clients; GOST R

Applications

Corrosive flow media; Inflammable media; Adhering flow media Erosive flow media; Toxic flow media

Other

Standard lever - material: Aluminum

Steel lever

T-lever – material: Steel





TUFLIN®-Jacketed Plug Valves

- Plug Valve with Jacket
- Jackets from flange to flange (PJ) resp. Full-Jacketed (FJ) with Oversize-flanges
- Large jacket volume
- Jackets in materials Carbon Steel and Stainless Steel (1.4301)
- Several Jacket connection designs and Jacket connections (sockets with weld and threaded ends, flanges acc. to DIN and ANSI)
- For Two-way- and Mulitport valve types available
- ISO-Cover

Technical Data

Size Range: DN 15 – 350 / NPS $\frac{1}{2}$ - 14 **Pressure Range:** PN 10-100 (EN 1092-1)

ANSI Class 150-600 (also according to JIS & BS)

Vacuum

(Vacuum range: up to 1.33 x 10⁻² mbar) **Temperature Range:** 173 K up to 553 K (-100° C up to +280° C)

Materials

Carbon Steel e.g. EN10213-2 (1.0619), A216-WCB Stainless Steel e.g. 1.4408, 1.4539, 1.4309, CF8M, CF8, CF3M, CN7M, A494-M-35-1 (Monel), A494-CZ100, A494-N7M (Alloy B2), A494-CW2M (Alloy C4), B367-C2 (Titanium) Other materials on request.

Sleeves and sealings made from virgin PTFE.

Further materials for sleeves available depending on pressure and temperature.

Options

- FIRESAFE
- Oil- and Grease-free, i.e. for oxygen,
- Relief hole or slot for polymerizing media and chlorine
- Special designs for specific applications

Approvals/Certificates

CE-Marking; EU Type Test Approval; FIRESAFE certificate according to API607 4th ed.; Several approvals from clients; GOST R

Applications

Liquid Sulphur; Bitumen; Tar; Resins; other corrosive, polymerisating, etc. media, which must be maintained on their process temperature.

Other

Standard lever - material: Aluminum

Steel lever

T-lever – material: Steel





TUFLIN®-Multiport Plug Valves

- Identical technical features like the two-way-valve
- Mulitport-design for a variety of applications
- 3-way- up to 5-way-valves
- Different Plug designs
- 3-way valves also with Jackets
- Valves acc. to DIN and ANSI
- Valves with Flanged-, Weld (SW/BW)- resp. Threaded Ends
- DIN/ISO 5211-Cover available

Technical Data

Size Range: DN 15 - 300 / NPS 1/2 - 12 **Pressure Range:** PN 10-40 (EN 1092-1)

ANSI Class 150 - 300 (also according to JIS & BS)

Other pressure classes on request

Vacuum

(Vacuum range: up to 1.33 x 10⁻² mbar)

Temperature Range: 173 K up to 553 K (-100° C up to +280° C)

Materials

Ductile Iron EN-JS1049 as per EN 1563, Carbon Steel e.g. EN10213-2 (1.0619), A216-WCB, A352-LCB Stainless Steel e.g. 1.4408, 1.4539, 1.4309, CF8M, CF8, CF3M, CN7M, A494-M-35-1 (Monel), A494-CZ100, A494-N7M (Alloy B2), A494-CW2M (Alloy C4), B367-C2 (Titanium) Other materials on request.

Sleeves and sealings made from virgin PTFE.

Further materials for sleeves available depending on pressure and temperature.

Options

- FIRESAFE
- Oil- and Grease-free, i.e. for oxygen
- Special designs for specific applications

Approvals/Certificates

CE-Marking; EU Type Test Approval; FIRESAFE certificate according to API607 4th ed.; Several approvals from clients; GOST R

Applications

Change-over valves for example for mixing of media, tank filling filter- and drying-units, pump circuits

Other

Standard lever - material: Aluminum

Steel lever

T-lever – material: Steel





TUFLIN®-Sleeved Plug Valves with triple sealing

- Identical technical features like the two-way-valve
- Three independent sealing systems to atmosphere Primary seal = PTFE-sleeve Secondary seal = cover sealing set Tertiary Seal = Safety stuffing box
- Safety stuffing box guarantees emergency sealing, even when the first two sealing systems are damaged
- For Two-way- and Mulitport valve types available (except for lined valves)
- DIN/ISO 5211-connection at the cover

Technical Data

Size Range: DN 15 – 400 / NPS ½ - 16 **Pressure Range:** PN 10-40 (EN 1092-1)

ANSI Class 150-300 (also according to JIS & BS)

Higher pressure classes on request

Vacuum

(Vacuum range: up to 1.33 x 10⁻² mbar)

Temperature Range: 173 K up to 553 K (-100° C up to +280° C)

Materials

Ductile Iron EN-JS1049 as per EN 1563, Carbon Steel e.g. EN10213-2 (1.0619), A216-WCB Stainless Steel e.g. 1.4408, 1.4539, 1.4309, CF8M, CF8, CF3M, CN7M, A494-M-35-1 (Monel), A494-CZ100, A494-N7M (Alloy B2), A494-CW2M (Alloy C4), B367-C2 (Titanium) Other materials on request.

Sleeves and sealings made from virgin PTFE. Further materials for sleeves available depending on pressure and temperature.

Options

- FIRESAFE
- Leakage detection
- Oil- and Grease-free, i.e. for oxygen

Approvals/Certificates

CE-Marking; EU Type Test Approval; FIRESAFE certificate according to API607 4th ed.; Several approvals from clients; GOST R

Applications

For extreme critical media (for example toxic, lethal) In case of quick working temperature cycling

Other

Standard lever – material: Aluminum

Steel lever

T-lever – material: Steel





TUFLIN®-Control Plug Valves

- Identical technical features like the two-way-valve
- Regulation of the process medium by means of Flow Cage and Control Plug
- Variable applications due to different cv-values
- Easy adaption on changed process conditions just by exchange of the Flow Cage (larger or smaller cv-value)
- · Control Valve with thight shut-off
- Also available for Plug Valves with Jackets
- DIN/ISO 5211-Cover

Technical Data

Size Range: DN 15 - 300 / NPS $\frac{1}{2}$ - 12 **Pressure Range:** PN 10-40 (EN 1092-1)

ANSI Class 150-300 (also according to JIS & BS)

Higher pressure classes on request

Vacuum

(Vacuum range: up to 1.33 x 10⁻² mbar)

Temperature Range: 173 K up to 553 K (-100° C up to +280° C)

Materials

Carbon Steel EN10213-2 (1.0619), A216-WCB Stainless Steel e.g. 1.4408, 1.4539, 1.4309, CF8M, CF8, CF3M, CN7M, A494-M-35-1 (Monel), A494-CZ100, A494-N7M (Alloy B2), A494-CW2M (Alloy C4), B367-C2 (Titanium) Other materials on request.

Sleeves and sealings made from virgin PTFE.

Further materials for sleeves available depending on pressure and temperature.

Options

- FIRESAFE
- Oil- and Grease-free, i.e. for oxygen
- Special designs for specific applications

Approvals/Certificates

CE-Marking; EU Type Test Approval; FIRESAFE certificate according to API607 4th ed.; Several approvals from clients; GOST R

Applications

Regulation of process media

Other

Standard lever - material: Aluminum

Steel lever

T-lever – material: Steel





TUFLIN®-High Pressure Plug Valves (PN 100 / ANSI Class 600)

- Identical technical features like the two-way-valve
- High Pressure Design for PN 100 resp. ANSI Class 600
- 2-way-valves
- Also with Jackets
- · Valves acc. to DIN and ANSI
- Valves withFlanged-, resp. Weld (SW/BW)-Ends

DIN/ISO 5211-Cover available

Technical Data

Size Range: DN 25 – 350 / NPS 1 - 14

Pressure Range: PN 100(EN 1092-1); ANSI Class 600
Temperature Range: 173 K up to 553 K (-100° C up to +280° C)

Materials

Carbon Steel EN10213-2 (1.0619), A216-WCB

Stainless Steel e.g. 1.4408, 1.4539, 1.4309, CF8M, CF8, CF3M, CN7M, A494-M-35-1 (Monel), A494-CZ100, A494-N7M (Alloy B2),

A494-CW2M (Alloy C4), B367-C2 (Titanium)

Other materials on request.

Options

FIRESAFE

Oil- and Grease-free, i.e. for oxygen

Approvals/Certificates

CE-Marking GOST R

Applications

High Pressure applications

for example in Reverse Osmosis Desalination Plants

Other

Operation with Lever or Gear





TUFLIN®-HF-Plug Valves

- Identical technical features like at the two-way-valve
- TUFLIN®-Plug Valve licensed by PHILLIPS Petroleum Co. and UOP for their HF-Alkylation-Processes
- Body and plug in ASTM A-494-1994 Grade M-35-1 resp. M-30-C
- TUFLIN® HF-SPV have proven themselves with years of service in thousand of hydrofluoric acid applications

Technical Data

Size Range: NPS 1/2 - 20

Pressure Range: ANSI Class 300 und 600 (de-rated) **Temperature Range:** As per Licensor's specification

Materials

ASTM A494-1994 M-35-1 resp. M-30-C

Options

Fullbore-design

Approvals/Certificates

PHILLIPS UOP GOST R

Applications

HF-Alkylation

Other

- Operation with Lever or Gear
- Operation with pneumatic (recommendet with XOMOX XRPactuators), electrical and hydraulic actuators as per client's requirements.
- For HF-Alkylation-Process also licensed: CRANE-PACIFIC Gate Globe and Check Valves.
- Centralized HF CRANE Service Center for XOMOX & Pacific HF valves (Stock of valves and spares, support, repair and maintenance).
- Single source for a complete HF-valve package.



Further TUFLIN® Plug Valve Designs

Options

- Fullbore Valves
- Sampling valves
- Interconnected Valve Combinations
- Pump change-over Valves
- Firebrigade Valves
- Double-Block and Bleed Valves
- Nuclear Valves
- Tank Car and Container Valves (compact plug valves)All valves can be automated with XOMOX XRP-actuators.

Subject to technical revisions.

XOMOX-XRP Automated Plug Valves







XOMOX International GmbH & Co.
Von-Behring-Straße 15
D-88131 Lindau/Bodensee
Tel.: (49) 8382-702-0
Fax: (49) 8382-702-144

CRANE

ChemPharma Flow Solutions

brands you trust.

CRANE ChemPharma Flow Solutions Include: Pipe - Valves - Fittings - Actuators - Pumps















